# Ultra Compact Ethernet
# Serial Servers
## BB-VESP211 series

**ADVANTECH**

BB-VESP211

## PRODUCT FEATURES

- Ethernet enable serial devices
- Data rate: up to 230.4 kbps
- RS-232, RS-422/485, RS-232/422/485 to Ethernet models
- IP30 metal enclosure - panel mount (DIN rail option)
- Compact design fits into tight installations
- 10-30Vdc power supply required and included
- UL 60950 Listed

## OVERVIEW

BB-VESP211 series Ethernet Serial Servers connect serial devices (RS-232, RS-422 or RS-485) to Ethernet networks, allowing the serial device to become a node on the network. The serial port can be accessed over a LAN/WAN using Direct IP Mode, Virtual COM Port, or Paired Mode connections. BB-VESP211 series Ethernet Serial Servers feature 10BaseT or 100BaseTX copper network.

The product is built for use in harsh environments, featuring a heavy-duty metal enclosure that is panel (standard) or DIN rail mountable (with optional adapter).

### Power Source (included)

The product requires and operates from a 10-30Vdc range of power inputs. It ships with an included AC wall power supply that features a universal AC input, barrel connector and interchangeable blades for North America, Europe, UK, Australia and China.

### Ease of Use

Configuration, upgrades and monitoring are simple, easy tasks with Vlinx™ Manager Software. It installs right on your PC giving you access to the serial server via your desktop. Manage remotely over a LAN or WAN via the built-in web server. This is helpful for off-site troubleshooting and can be done with a simple web browser.

## ORDERING INFORMATION

| MODEL NUMBER | SERIAL PROTOCOL | SERIAL PORT | ETHERNET PORTS | ETHERNET CONNECTOR |
|---|---|---|---|---|
| BB-VESP211 | RS-232/422/485 | DB9M | 1 | RJ45 |
| BB-VESP211-232 | RS-232 | DB9M | 1 | RJ45 |
| BB-VESP211-485 | RS-422/485 | Removable Terminal Block | 1 | RJ45 |

### ACCESSORIES - sold separately

**BB-SMI6-12-V-P5 -** Power supply, 12V DC, 6 Watt, 5mm plug, International AC input, International AC blades. *One power supply (this model#) included with product.*

**BB-DRAD35** - Optional DIN rail adapter clip (pair)

**BB-232NM9** - Optional null modem crossover cable for DTE to DTE connection

**BB-TBKT2** - Replacement terminal block, 5-position, 5.08mm, 8A, 30

# Ultra Compact Ethernet Serial Servers
## BB-VESP211 series

BB-VESP211-232

## SPECIFICATIONS

| SERIAL TECHNOLOGY | |
|---|---|
| RS-232 (DB9) | TD, RD, DTR, DSR, RTS, CTS, DCD plus Signal Ground |
| RS-485 2-Wire | Data A(-), Data B(+), GND |
| RS-422/485 4-Wire | TDA(-), TDB(+), RDA(-), RDB(+), GND |
| Serial Protocols & Connectors<br>BB-VESP211:<br>BB-VESP211-232:<br>BB-VESP211-485: | <br>RS-232/422/485 (DB9 male)<br>RS-232 (DB9 male)<br>RS-422/485 (removable terminal block) |
| Data Rate | Up to 230.4 Kbps |

| MECHANICAL | |
|---|---|
| LED Indicators | Serial Port, Ethernet, Ready LED's |
| Switches | Reset Button |
| Dimensions | BB-VESP211 - 7.938 x 5.257 x 2.209 cm |
| Enclosure | IP30 metal; panel mount (DIN rail mount with optional adapter clips) |

| ENVIRONMENTAL | |
|---|---|
| Operating Temperature | 0 to +40 °C with included power supply.<br>-40 to +80 °C without power supply. |
| Operating Humidity | 10 to 95%, non-condensing |

| POWER SOURCE - INCLUDED | |
|---|---|
| Included Power Supply | AC Wall Adapter Power Supply & international blade kit |
| Output Voltage | 12Vdc |
| Output Current | 0.5A, maximum |
| Output Power | 6W, maximum |
| Ripple & Noise | 200mVp-p, maximum |
| Output Plug | Standard DC straight plug; 2.1mm barrel connector |
| Input Voltage | 90 to 264 V AC |
| Frequency | 47 to 63 Hz |
| Power Connector Dimensions | 5.5 x 2.1 mm |
| Power Consumption | 2.5 Watts, maximum<br>No load; Level VI = 0.1W; ErP Tier 1 = 0.075W |
| Operating Temperature | 0 to +40 °C (+32 to +104 °F) |
| Storage Temperature | -10 to +70 °C (-14 to +158 °F) |
| Operating Humidity | 20 to 80% |
| Storage Humidity | 10 to 90% |
| International Blade Kit | North America, Europe, U.K., Australia, China, Japan |

| MEANTIME BETWEEN FAILURES (MTBF) | |
|---|---|
| MTBF | BB-VESP211: 1316219 hours<br>BB-VESP211-232: 1153248 hours<br>BB-VESP211-485: 1000086 hours |
| MTBF Calculation Method | MIL 217 F Parts Count Reliability Prediction |

| NETWORK | |
|---|---|
| Serial Memory | 8 KB per port |
| Network Memory | 4 KB |
| LAN | 10/100 Mbps Auto-detecting, 10BaseT or 100BaseTX |
| Ethernet | IEEE 802.3 auto detecting & auto MDI/MDI-X, 10BaseT and 100Base TX |

| PROTOCOLS | |
|---|---|
| Protocols | TCP, IPv4, UDP, ARP, HTTP 1.0, ICMP/PING, DHCP/BOOTP |
| IP Mode | Static, DHCP |
| TCP/UDP<br>UDP | User definable<br>Unicast or Multicast |

| NETWORK | |
|---|---|
| Connection Mode | Server, Client, VCOM, Paired |
| Client Connection | At power up or upon data arrival |
| Search | Serial direct COM and Ethernet Auto Search or specific IP |
| Diagnostics | Display PC IP, ping, test VCOM |
| Firmware Upgrade | via Vlinx™ Manager |

| CONFIGURATION SOFTWARE | |
|---|---|
| Vlinx™ Manager Windows O/S | (32/64 bit): 2003 Server, Vista, 2008 Server, 7, 8/8.1, 10 |

| REGULATORY | |
|---|---|
| Compliance | FCC, Part 15 Class B, UL 60950 |
| CE - Directives | 2004/30EC - Electromagnetic Compatibility Directive<br>2014/35/EU - Low Voltage Directive<br>2015/863/EU - Reduction of Hazardous Substances Directive (RoHS-3)<br>2012/19/EU - Waste Electrical and Electronic Equipment (WEEE) |
| CE - Standards | EMC:<br>EN 55032 Class B - Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements<br>EN 55024 - Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement<br><br>Safety:<br>EN 60950-1 +A1 +A11 +A12 +A2 - Information Technology Equipment |

## MECHANICAL DIAGRAM - BB-VESP211-485



5.257 cm / 2.070 in

2.209 cm / 0.870 in

7.303 cm / 2.875 in

7.938 cm / 3.125 in

8.890 cm / 3.500 in
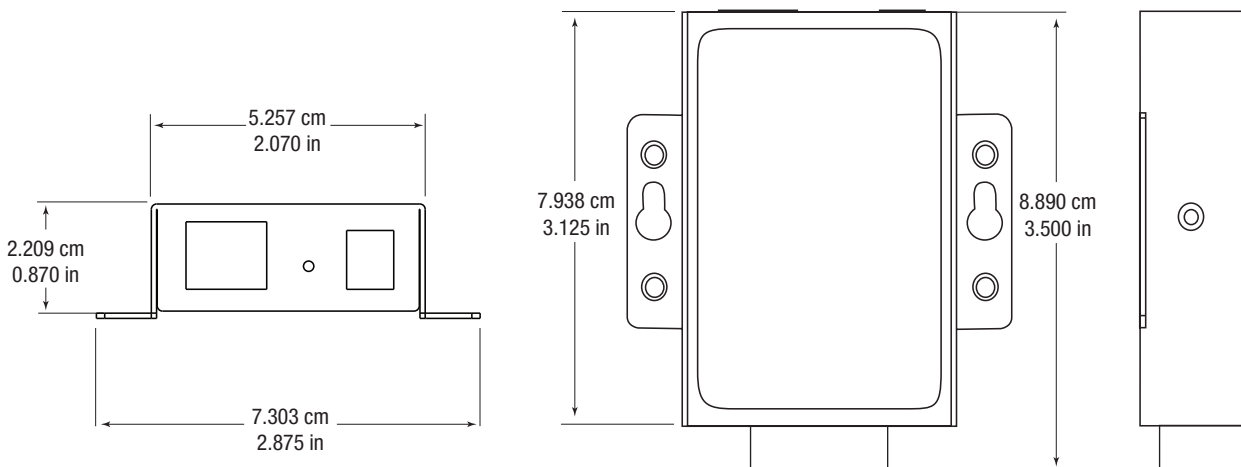
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